



TABLE 8.2-1.-AIR POLLUTION CONTROL SYSTEMS (APCS) AND THEIR CONSERVATIVELY ESTIMATED EFFICIENCIES FOR REMOVING HYDROGEN CHLORIDE (HCL) AND PARTICULATE MATTER (PM) (%)

APCD	HCl		
	Cement kilns	Other BIFs	PM
WS	97	97	40
VS-20	97	97	80
VS-60	98	98	87
ESP-1	83	0	90
ESP-2	83	0	92
ESP-4	83	0	95
WESP	83	70	90
FF	83	0	90
SD/FF	98	98	97
DS/FF	98	98	95
WS/IWS	99	99	95
IWS	99	99	90

WS= Wet Scrubber including: Sieve Tray Tower, Packed Tower, Bubble Cap Tower  
 PS= Proprietary Wet Scrubber Design (A number of proprietary wet scrubbers have come on the market in recent years that are highly efficient on both particulates and corrosive gases. Two such units are offered by Calvert Environmental Equipment Co. and by Hydro-Sonic Systems, Inc.).  
 VS-20= Venturi Scrubber, ca. 20-30 in W.G.  $\Delta p$   
 VS-60= Venturi Scrubber, ca. >60 in W.G.  $\Delta p$   
 ESP-1= Electrostatic Precipitator; 1 stage  
 ESP-2= Electrostatic Precipitator; 2 stage  
 ESP-4= Electrostatic Precipitator; 4 stage  
 IWS= Ionizing Wet Scrubber  
 DS= Dry Scrubber  
 FF= Fabric Filter (Baghouse)  
 SD= Spray Dryer (Wet/Dry Scrubber)